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mos-filter

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Abstract

mos-filter is the initial task to be run on the data within the esas package for MOS. It calls espfilt to identify good time intervals. Filtering is also done using the standard parameters for PATTERN, etc. mos-filter will process all of the MOS imaging exposures for both detectors for the observation pointed to by \$SAS_DIR.

1 Instruments/Modes

	Instrument	Mode	
EPIC		Imaging	

2 Use

pipeline processing	no	
interactive analysis	yes	

3 Description

mos-filter is the initial task to be run on the data within the esas package for MOS. It calls espfilt to identify good time intervals. Filtering is also done using the standard parameters for PATTERN, etc. mos-filter will process all of the MOS imaging exposures for both detectors for the observation pointed to by \$SAS_DIR.

Warning and requirements: mos-filter is part of the *esas* package integrated into SAS, but it is limited to work within the *esas* data reduction scheme.

4 Parameters

This section documents the parameters recognized by this task (if any).

Parameter Mand	Type	Default	Constraints
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5 Input Files

The task will filter data reduced either with emproc or emchain, present in the working directory.

6 Output Files

- \bullet mos prefix-cc-ori.fits The cal-closed photon event files produced by emchain
- mos prefix-clean.fits The filtered photon event files
- mosprefix-corn.fits Event list of data from the corners of the detectors
- \bullet mosprefix-corn-image.fits Image of the filtered data from the unexposed corners in detector coordinates
- mosprefix-gti.fits Fits file list of good time intervals identified by the task espfilt
- mosprefix-gti.txt Ascii list of good time intervals identified by the task espfilt
- mosprefix-hist.qdp QDP plot file of the light curves showing the filtered intervals and a histogram of the mosprefix-rate.fits showing the filtering selection.
- mosprefix-obj-image-det.fits Image of the filtered data in detector coordinates
- mosprefix-obj-image-det-soft.fits Image of the filtered data in detector coordinates in the 0.2-0.9 keV band
- mosprefix-obj-image-det-unfilt.fits Image of the unfiltered data in detector coordinates
- mosprefix-obj-image-sky.fits Image of the filtered data in sky coordinates
- mosprefix-ori.fits The photon event files produced by emproc / emchain
- mosprefix-ratec.fits Light curve of the data from the corners of the detectors in the 2.5 12.0 keV band
- mosprefix-rate.fits Light curve of the data within the open area of the detectors in the 2.5 12.0 keV band

7 Algorithm

8 Comments

References